

From boatanchors@theporch.com Thu Feb 13 21:30:01 1997
From: dfrancis@access.usa.net (Dexter Francis)
Subject: Re: 1N400X vs. Ballast tubes...
Message-ID: <v01520d02af294c5bc71e@[207.0.57.74]>

Ben said:

> I saw this somewhere else, and it makes a lot of sense: replace the
> 3TF7 with an ordinary silicon power rectifier(1N400X). The half
> -wave dc will be nearly the same to the tubes as dropping half the
> voltage in the ballast tube.

What one would be doing here is creating a half wave unfiltered DC power supply to feed the filaments.
Circuit analysis isn't my strong suit, but the addition of a capacitor and resistor across the output (after the diode) would help reduce the "ripple". However, there might also be a problem with feeding the filaments half wave DC, even filtered, both from the standpoint of biasing them above chassis ground by an average of 6 volts and because they'll cyclically heat up and cool down at half the rate of the other tubes in the circuit. This could affect their performance.

Hank VanC could probably address this question with more authority...

-df

* CWest Tube Sales - P.O. Box 22443 SLC, UT 84122 *
* (801) 363-TUBE voice/fax, E-mail: tubes@usa.net *
* http://www.usa.net/~dfrancis/CWest_Tube_Sales.html *

From boatanchors@theporch.com Thu Feb 13 21:30:01 1997
From: "Edward J. Zeranski" <ejz@nosc.mil>
Subject: 7591 tubes
Message-ID: <2.2.32.19970213220238.009999914@marlin.nosc.mil>

Saw a BA post on these a while back but never read it as no 7591s were at home. I recently picked up some of these and asked about them on rec.radio.amateur.boatanchors and rec.radio.phono.antique. Geeze Looweeze! It started a feeding frenzy from audio folks! Didn't know about these things, I'm a receiver addict not a Hi-Fi nut, too many years around loud things busted my appreciation of audio nuance. So..are there BAs that use these things? Any BA out there in drydock for a 7591? Nothing I have uses 7591s so I'll sell 'em for \$25 ea.(was told \$30-\$60 was common NIB) The tubes are GE and Sylvania in original boxes and will be checked with my

Hickock and EICO 667 tube torcherers. The rest of this batch of tubes is all EL this, ECC that, 12AX7, 6AQ5, and audio tubes that I haven't gone through yet. Thanks

Ed Zeranski ejz@marlin.nosc.mil, work
 ezeran@cris.com home
Wooden Boats, Tube Receivers, Rusty Old Trucks, The Good Stuff!

This is a private opinion or statement and is nobody's fault but mine. No person, employer, or govt. should try to take credit for it!

From boatanchors@theporch.com Thu Feb 13 14:21:41 1997
From: bdhall@ghg.net (Benjamin D. Hall)
Subject: Re: accessory needed
Message-ID: <33028AE4.3349@GHG.net>

Nick England wrote:

> Meter, USN type CG-22409
> and would like to find the matching equipment that goes with this meter.
> The meter has markings that read
> DEPRESS ELEVATE TRAIN LEFT TRAIN RIGHT

Hi Nick... Back when I was in the scouts, we visited the battleship Massachusetts which is moored in Fall River MA. One of the things I wanted to see badly was the Bofors Quad 40, which is an AA battery consisting of four 40mm guns, as I have a complete 40mm AA shell (unloaded, another cool gift from Grandpa!). From what I remember, Quad 40 batteries were aimed two different ways: 1) manually, with guys turning cranks till the aircraft came into the cross-hairs, or 2) optically using a Fire Director. It was an optical instrument that you would look thru at the incoming airplane, and the Quad 40 battery was aimed according to the output of the Fire Director. I wonder if this meter was mounted on a Quad 40 battery as the indicator to the crew of where to aim the guns?

Any Navy WWII gunners or gunners mates out there? I don't think it is from the 16 inch guns, and I don't remember what the 5 inch turrets had for aiming instrumentation.

That old battlegewagon was an experience I'll never forget. I've been on a U-boat (U-505), several WWII subs (Croaker and another I forget), a destroyer (the JFK?), an aircraft carrier (Intrepid), two nuke subs (Nautilus and the USS Springfield, a LAX-class fast attack sub), but

none had the class of that old girl...

73,
Ben
--

From the computer of	Collector of fine firebottle
Benjamin D. Hall, Houston Texas	equipment, as well as other things
BDHall@GHG.net (home) -or-	involving Earth, Air, Water, and
Benjamin.D.Hall1@JSC.NASA.gov	Fire.

PLEASE NOTE MY NEW HOME E-MAIL ADDRESS above. My old address,
BDHALL@GHGCorp.com, will still work for a period of time however.

From boatanchors@theporch.com Thu Feb 13 14:21:41 1997
From: "Ray L. Mote" <rmote@rain.org>
Subject: Re: accessory needed
Message-ID: <Pine.SUN.3.95.9702130000003.24672C-1000000@coyote.rain.org>

That CG-22409 meter info is:

First assigned for: MK-12, MK-3, MK-4
Train Meter (Zero Center). 0 to +/- 1 mADC, has illuminated scale and
is equipped with indicating bulls eyes. Same as -22341 except for the
damping which is slightly less & the scale marking which is "TRAIN
RIGHT-DEPRESS" and "TRAIN LEFT-ELEVATE". 4x4 5/8x2 11/16 inches.
DC resistance is 12.7 ohms.
Nomenclature granted 4/30/43. Also has Western Electric part numbers
(KS-9121) associated with it.
Above data from NAVSHIPS 900,109, NAVY TYPE NUMBER BOOK, Sept 1945.

According to A HISTORY OF ENGINEERING & SCIENCE IN THE BELL SYSTEM
(National Service In War and Peace 1925-1975), page 68, the MK3 was a
surface fire control radar and both the MK4 and MK12 were antiaircraft
fire control radars. So, if you can find that 5-inch 38-caliber mount,
you're in business! All three radars were L-band systems.

73.....Ray Mote, K5FKT <rmote@rain.org> Oxnard, CA ex-W6RIC

From boatanchors@theporch.com Thu Feb 13 21:30:01 1997
From: Tom Norris <badger@telalink.net>

Subject: Alignment of R-392 PTO?

Message-ID: <3.0.32.19970213204202.00731d3c@telalink.net>

Does anyone here know the proper procedure for setting the end points and linearity on a R-392 PTO? Dont see any mention of it in the FRS manual copy I have. The PTO is a Durbrow FWIW....

Thanks

Tom Norris KA4RKT

badger@telalink.net Nashville, Tennessee, USA

Eagles may soar free and proud, but weasels
never get sucked into jet engines.

From boatanchors@theporch.com Thu Feb 13 14:21:41 1997

From: Sandy W5TVW <ebjr@worldnet.att.net>

Subject: re: ARC-5 TO VFO CONVERSION

Message-ID: <19970213064048.AAB12421@LOCALNAME>

At 12:19 AM 2/13/97 +0000, you wrote:

>

>(John Sehring wrote . . .)

>

>>This reminds me that C.E.'s model 10 and 20 SSB Exciters used converted
>>ARC-5 type things as quite satisfactory VFO's.

>

>Yes, and I'm still looking for one for my "new" 20A!

>

>It can be a BC-458 or a T-21 or a Cxx-52210. Condition doesn't matter as
>long as frequency determining components are all there and it covers
>somewhere in the vicinity of 5 to 7+ mHz.

>(The 20A mixes the VFO signal with 9mHz).

>

>73,

Be it known that Central Electronics did not make a VFO (per se) for
the 10B/20A

exciters. The DID make a very nice matching cabinet, plastic dial
(calibrated for the BC-458) and parts kit necessary to modify the BC-458 for
use as a VFO. You might be on the "lookout" for one of these.

73,

E. V. Sandy Blaize, W5TVW

"Boat Anchors collected, restored, repaired, traded and used!"

417 Ridgewood Drive,

Metairie, LA., 70001
ebjr@worldnet.att.net
Looking for: 860 tubes, WL-460 tubes, RK-18,20,28 tubes
Butternut HF2V antenna, G-R test gear.....*

From boatanchors@theporch.com Thu Feb 13 21:30:01 1997
From: kb5wwwo@juno.com (George Folse)
Subject: Atwater Kent Radios
Message-ID: <19970213.184100.5063.0.kb5wwwo@juno.com>

Hello All
Is there any Atwater Kent radio collectors out there?
Looking for models 465Q,735,24,228,387,80,82. Also AK Horn Speakers
Thanks
George KB5WWO

From boatanchors@theporch.com Thu Feb 13 21:30:01 1997
From: arc5@ix.netcom.com (David Stinson)
Subject: ATWATER-KENT MODEL 35
Message-ID: <199702132225.QAA12713@dfw-ix12.ix.netcom.com>

Need wiring diagram for Atwater Kent model 35 BCB radio.

Thanks,
Dave AB5S
arc5@ix.netcom.com

From boatanchors@theporch.com Thu Feb 13 14:21:41 1997
From: Dan Kerl <dlkerl@ro.com>
Subject: Re: Big Dream - Small Screen
Message-ID: <3303237B.68B7@ro.com>

Stan Griffiths wrote:
> Hey Guys and Gals,
>
> There is a Web page that is devoted to Farnsworth. I don't know the
> address, but you can find it if you have a good search engine.
>
> Stan w7ni@teleport.com
>
> PS I know a guy (Dave Farnsworth) who claims to be Philo's grandson. I am
> skeptical . . .

<http://www.edge.net/noma/philo/>

Dan Kerl
dlkerl@ro.com

From boatanchors@theporch.com Thu Feb 13 14:21:41 1997
From: Chuck Penson <penon@sci.mus.mn.us>
Subject: Borrow? Heath Catalogs
Message-ID: <330369D0.1591@sci.mus.mn.us>

I need to borrow any Heathkit catalogs from 1950 and 1951. I'll need them for no more than a month. Any help would be appreciated.

Thanks!

--
Chuck Penson
WA7ZZE

penon@sci.mus.mn.us
612.221.4510 voice
612.224.5092 fax
<http://comped.sci.mus.mn.us>

After having used the Web for a couple of years now I am convinced that lots of information isn't always better than no information at all.

From boatanchors@theporch.com Thu Feb 13 21:30:01 1997
From: "Bill Richarz" <wricharz@transprt.com>
Subject: Cleaning DX-60 Chassis
Message-ID: <19970213221957.007dbfe4.in@transprt.com>

I just acquired a DX-60 & the chassis needs to be cleaned. Anyone know what's the best thing to use?

Was only working on 40 meters when I got it today, but found an open 1000 ohm 2 watt resistor (R-4) I think. That did the trick. Now if I can just clean it up a bit & find some crystals other than the 3899 KHz & a 7066 KHz crystal. The 7066 is one of those Peterson crystals with the orange cover....for some strange reason it oscillates at 7099 & has quite a chirp. I've doubled the 3899 crystal with no chirp there, so must be that crystal. Anyone have any ideas?

Thanks de Bill, N4DH

From boatanchors@theporch.com Thu Feb 13 14:21:41 1997
From: Walt Novinger <waltn@earthlink.net>
Subject: Coax advice sought
Message-ID: <2.2.32.19970213205355.006ba7e8@mail.earthlink.net>

What type of miniature coax would be suitable for routing 455kKz IF around in an R-390A, for instance. Is RG-174U OK for this purpose?

Thanks for the help,
Walt

=====

Walt Novinger	Real Radios Keep You Warm At Night!
Collector of hollowstate communications receivers and test equipment	
waltn@earthlink.net	wnovinger@shl.com

From boatanchors@theporch.com Thu Feb 13 21:30:01 1997
From: km1h@juno.com
Subject: Re: Coax advice sought
Message-ID: <19970213.165156.9887.12.km1h@juno.com>

On Thu, 13 Feb 1997 14:01:04 -0600 (CST) Walt Novinger
<waltn@earthlink.net> writes:
>What type of miniature coax would be suitable for routing 455kKz IF
>around
>in an R-390A, for instance. Is RG-174U OK for this purpose?

Good Afternoon Walt;
RG-174 is a decent general purpose coax for your purpose but is easily damaged by many BA type soldering devices. A readily available alternative, which I use here, is the RG-178 (50 Ohm) and 179 (75 Ohm) Teflon coaxes. They are all in the 174 size range and are showing up at pennies for the dollar on surplus markets. I paid \$15 for 3000 feet of RG-178 at a fleamarket in May '96. The silver plated shields and center conductors make this military/industrial surplus coax ideal for critical , low heat soldering, use.

For 99% of BA use the impedance difference between 50 and 75 Ohms will not be an issue for chassis wiring. Whatever is available will work UNLESS the specific capacitance of the cable is part of the circuit

design. Not likely at anything below VHF.

73.....Carl KM1H

From boatanchors@theporch.com Thu Feb 13 14:21:41 1997
From: w2ec@VNET.IBM.COM
Subject: Collins S-line xmtr parts needed
Message-ID: <199702131402.IAA00801@uro.theporch.com>

Anyone with an S-line transmitter parts rig? I'm looking for the following to repair a KWM-2A.

ALC ZERO pot, R30, 250 ohm variable, identical to R15, CARRIER BALANCE

PA LOAD Padder/Trimmer, C155, 15-120mmf

PA LOAD Padder/Trimmer, C152, 100-500mmf, identical to C153 and C154

BFO CRYSTAL, Y17, 456.350kc

73, Ray W2EC w2ec@vnet.ibm.com

From boatanchors@theporch.com Thu Feb 13 21:30:01 1997
From: tomrice@netcom.com (Tom R. Rice)
Subject: Dial Plates for Switches
Message-ID: <199702140234.SAA24770@netcom20.netcom.com>

Recently we learned of a source (Allied) for potentiometer (300 degrees) dial plates. Up 'til now, the matching plates for _switches_ seem to have been unobtainable.

However, I received a catalog from Electroswitch which, on page 54A shows a line of dial plates in two sizes (1.87 and 2.75 inches in diameter), for rotary switches of 15, 20 and 30 degrees/position switch angles. These appear to be compatible with the plates offered by Ohmite and others.

What you want is:

Standard Catalog EEP-3: Rotary Switches
from
Electroswitch Electronic Products

2010 Yonkers Road
Raleigh, NC 27604

phone: 888/ROTARYS or 919/833-0707
fax: 800/909-9171 or 919/833-8016
e-mail: sales@electro-nc.com

A price sheet didn't come with the catalog; we may wanna join forces for a quantity purchase if prices are too steep. Allied lists some Electros witch products, but doesn't show the plates in their catalog.

Here's to pretty rigs!

73 de WB6BYH

--

"Start off every day with a smile and get it over with." --W.C.Fields
Tom R. Rice
tomrice@netcom.com
CIS: 71160,1122

From boatanchors@theporch.com Thu Feb 13 14:21:41 1997
From: "Herb Holeman" <choleman@ptialaska.net>
Subject: Dues address needed
Message-ID: <199702130532.UAA20350@husky>

Could someone please post the address to which I should send my renewal funds??

Thanks to all for the most interesting list on the net!

de Herb Holeman, W7ZF
Juneau, Alaska

From boatanchors@theporch.com Thu Feb 13 14:21:41 1997
From: Mike & Holly Steussy <hikrbikr@erols.com>
Subject: Frostbite in Vienna
Message-ID: <330253E5.447@erols.com>

The annual Winterfest in Vienna VA will be on Sunday, 23 February. Vienna is just outside the Washington Beltway on VA Route 123. There are usually a good crop of boatanchors and a surprisingly good array of parts to be had at this relatively small hamfest. The 2m talk-in will be on 146.31/91.

Winterfest is at the Vienna Community Center and two parking lots. The

doors to the center open at 0800, but anyone wishing to tailgate outside should be there not later than 0600 to get a space. The host club makes every attempt to find room, but the good spots go well before dawn. Be prepared for the cold, however. Some years the tailgate area (aptly called "Frostbite") is a hypothermic experience. For BA seekers, however, it's the best time as you beat the crowds and can look over the tailgate stuff as it's unloaded. For later arrivals, parking is not easy unless you go to the Vienna Metrorail Station about 2 miles away and ride the free shuttle bus to the 'fest, which starts runs at 0730.

I arranged with the hamfest chairman for the BA people to meet at 1100 in the lounge area downstairs. The area is surrounded by vending machines, but is also close to the galley area where coffee and hot snacks are sold. An announcement will be made over the center's PA system, but it doesn't broadcast outside in the tailgate area, so plan to come in and thaw out about that time. Wear something red (like the filaments of a 6V6) such as a scarf or cap for recognition. I'll see you there.

73, Mike Steussy AE4R

From boatanchors@theporch.com Thu Feb 13 14:21:41 1997
From: Jeffrey Herman <jeffreyh@hawaii.edu>
Subject: FS: Heathkit HW16 and HG10B
Message-ID: <97Feb13.040144hwt.188196(2)@uhunix3.its.Hawaii.Edu>

Gang: If you don't scan rec.radio.swap periodically, you're missing a lot of BA gear being advertised. .Swap is not a discussion group like the rec.radio.amateur.* groups so you won't see any arguing (except about UPS...). I've been seeing an awful lot of small Heath BAs being advertised lately such as HW-16s, DX-60s, HR-10s. This guy's price is a bit high but he is coming down each week. With over 100 sale posts daily it can be difficult to keep up, but do give it a try.
Jeff KH2PZ

markf@col.hp.com wrote:

>Condition about 7. They are original. They work (I've used them
>regularly for the last few months). They do need cleaning-up.
>There is some corrosion on the chassis of the HW-16 that needs
>attention to make the rig really nice. They are not beaten-up, but
>they aren't pristine either. There are copies of the manuals.
>They've not been modified.
>Price: \$105 + shipping.
>-Mark K0EX
>markf@col.hp.com

From boatanchors@theporch.com Thu Feb 13 14:21:41 1997
From: Rudy Salomon <rhs@pacbell.net>
Subject: Re: FS: Collins 651S1 Receiver
Message-ID: <330336F0.2804@pacbell.net>

David C. Allen wrote:

>
> For Sale Collins 651S1 Receiver
> Found the following on the rec.radio.swap newsgroup:

\$650.00 US Includes Shipping 48 States USA
>
> For Information contact
>
> Jack Brower N7ID
> (208) 376-1190

Rudy Salomon KD6NRQ

From boatanchors@theporch.com Thu Feb 13 21:30:01 1997
From: "michael ferraro" <ferraro@sprintmail.com>
Subject: FS: Collins, Collins & Collins
Message-ID: <199702140037.QAA13125@mailgate22>

I have the following for sale:

1. Collins 32V3 - Very nice condition I would say a 7 on a 10 scale. Full output all bands , superb Audio !..... a main component of my station for over 4 years. \$700 plus shipping.

2. Collins 75A1 - Excellent condition and matches the 32V3.....Cosmetically a 9 on a 10 scale. I have this paired with the 32V3. It appears that the sensitivity is low but in all honesty, I have used it this way for the past 4 years. 2 of the knobs have broken skirts (they are easily replaceable. \$300 plus shipping. This is a joy to look at and operate

3. Collins KWM-2 and the 516F2 powersupply. Very nice.... 7 to an 8....this has been my main ssb position....works great. \$500 plus shipping.

73's de k6zsr "mike in montecito"

ph. 805-969-5095
fax 805-969-1305

From boatanchors@theporch.com Thu Feb 13 21:30:01 1997
From: "D. Ragsdale" <doragsda@polymail.cpunix.calpoly.edu>
Subject: FT: VT-42A's (872A)
Message-ID: <199702132003.AA151814206@rubens.artisan.calpoly.edu>

I have four NOS VT-42A tubes. These are 872A's - high voltage, high current (5 AMPS plate current) rectifier tubes. They were used in high power sets, such as the AN/MRC-2 (a 10KW amplifier which used a BC-610 as an exciter!). AES gets \$48 each for these things, if anyone has a need or use for them, I need a couple of more tuning units for my BC-375E and would love to trade them off. If you have a use for them and don't have any TU's, let me know anyway.

Dave

David Ragsdale, R.E.H.S. Risk Management
California Polytechnic State University, San Luis Obispo, CA
du651@oasis.calpoly.edu or doragsda@cymbal.aix.calpoly.edu

From boatanchors@theporch.com Thu Feb 13 14:21:41 1997
From: rsolomon@tsd.textron.com
Subject: Gonset G-66B parts/info needed
Message-ID: <9701138558.AA855853611@ccctds.tsd.textron.com>

Just got around to unpacking a Gonset G-66B Receiver I bought several months ago. Gives new meaning to "Good Condition". It's missing the Antenna Trimmer Knob and the BFO Knob, anyone have them laying around they will part with for coin of the realm. (How's that for a wish!!). Closer to reality, I also need a copy of the DC Power Supply, Gonset Model # 3098, will pay all usual costs. Haven't fired it up yet, but will do so after I check the tubes. Unit was working when shipped, so maybe there is hope. This makes two complete Gonset G66/G77 combos I have, the first was so clean you could eat off it, alas the S-Meter is blown. So here's to hoping I can find the missing knobs and schematic. Thanks to all.

73 Dick, W1KSZ

From boatanchors@theporch.com Thu Feb 13 14:21:41 1997
From: "Walter Fairclough" <wfairclo@netcom.ca>
Subject: Hallicrafters
Message-ID: <199702131642.LAA04925@tor-srs2.netcom.ca>

Picked up an SX-117 and HT-44 in real nice condition but someone painted the cabinets. While the paint job was well done I don't think it is the correct finish or color.

Can anyone help this purist? I would like to redo the cabinets to original factory (grey) condition. Did Hallicrafters use a wrinkle finish on these sets? Perhaps someone can tell me what paint product will do the job.

Thanks for reading.

Walter
--

Walter Fairclough
Manotick, Ontario
wfairclo@netcom.ca

From boatanchors@theporch.com Thu Feb 13 21:30:01 1997
From: Liles Garcia <liles@pmc-sierra.bc.ca>
Subject: Hammarlund HQ-129-X Questions
Message-ID: <Pine.SUN.3.95.970213173207.20648A-100000@zephyr.pdx.pmc-sierra.bc.ca>

Good evening everybody,

I got a Hammarlund HQ-129-X a couple weeks ago. It must be a later production model because the words "Hammarlund" and "HQ-129-X" are written in red. On my other HQ-129-X these words are written in white lettering. This newer receiver has some mods in it. On the front panel the "AVC-MVC-CW" switch has been relettered to say "AM-CW-SSB" and a slide switch has been added. The RF amplifier tube is now a 6SG7 instead of the usual 6SS7 and the mixer is now a 6X8A instead of the usual 6K8. The 6X8A mod is more obvious because it is a miniature tube. I have some article reprints from CQ in 1952 and 1959 describing these mods but these articles are a reversed image copy that looks really old. My HQ-129-X works on BC band, I tried it last weekend. I will check it out further this weekend and try listening to some SSB signals. Can someone please advise me about these mods; are they helpful or should I put my receiver back to original. Oh, by the way I should have said that these old copies of the mods are hard to read. When I pin down the exact issues of CQ I may ask the group here for some help in getting good copies of the mods. Another by the way,

one of the mods mentions a "TNC Noise Limiter". Thanks in advance for any help.

Regards from Aloha, Oregon,
Liles Garcia
liles_garcia@pmc-sierra.com

From boatanchors@theporch.com Thu Feb 13 21:30:01 1997
From: "JOHN A. KING (WA1ABI)" <JAK@SUD2.ED.RAY.COM>
Subject: Heath mon scope cap source
Message-ID: <01IFDEWXL RTE8WVZGY@SUD2.ED.RAY.COM>

The latest Allied catalog (#970) lists on page 114 a new line of high voltage tubular caps from GE that should be well suited to re-capping the HV sections in our beloved HO-10 and SB-610 monitor scopes.

Allied P/N	Cap	Volts	Price
591-6055	.1	1200	2.69
591-6120	.15	2000	3.56

So, fer less than ten bucks you're in business. _BUT_ (there had to be a but) Allied has a \$50 minimum order for credit card orders. Does anybody have an order going in to Allied that I might piggyback on??

73,
John King WA1ABI

From boatanchors@theporch.com Thu Feb 13 14:21:41 1997
From: "Jim Berry" <basalop@eskimo.com>
Subject: Re: Help with key ID
Message-ID: <199702130625.WAA23603@mail.eskimo.com>

> CRV RCA
>
> COL Collins Radio

>
> CUZ U.S. Telev Mfg
>
> CSE Signal Electric
>
> CEJ E.F. Johnson
Hello Tube Fans,

I have a CDM-26003A. Can anyone tell me who CDM is (was).

73 Jim K7SLI

Jim Berry K7SLI. QTH: Marysville, Wa (Near Seattle)
Email: basalop@eskimo.com FAX: 360-659-1360
Snail Mail: 5318 142nd PL NE Marysville, Wa 98271

From boatanchors@theporch.com Thu Feb 13 14:21:41 1997
From: Sandy W5TVW <ebjr@worldnet.att.net>
Subject: Info needed...
Message-ID: <19970213035201.AAA19100@LOCALNAME>

Hello BAers,

Does anyone out there have the data on the old Barker & Williamson (B&W) BVL, TVL and HDVL series coils? I am looking for the diameter of the windings, length of windings (each half), number of turns and (if possible) wire or tubing size used to wind them. Also the spacing between the two winding halves. all of the "VL" suffix coils in these three series used a seperate swinging link. I am mainly interested in 160/80/40 and 20 meter bands.

Possibly someone out there may have a set of coils that he can measure and post the info for everyone who might be interested in duplication these coil sets.

73,
E. V. Sandy Blaize, W5TVW
"Boat Anchors collected, restored, repaired, traded and used!"
417 Ridgewood Drive,
Metairie, LA., 70001
ebjr@worldnet.att.net
Looking for: 860 tubes, WL-460 tubes, RK-18,20,28 tubes
Butternut HF2V antenna, G-R test gear.....*

From boatanchors@theporch.com Thu Feb 13 21:30:01 1997
From: Bob Marsh <bmarsh@hicom.net>
Subject: Info On Hallicrafters
Message-ID: <3303993C.2303@hicom.net>

Hi all,

A friend of mine just got a Hallicrafters Transciever that no one around here has heard of before. It's a model FPM300 "Safari". It appears to be from the 60s (?) with tube driver and finals.

If anyone has any information regarding this guy, please let me know.

73 de Bob/KB2SGM

From boatanchors@theporch.com Thu Feb 13 14:21:41 1997
From: Bill Sorsby <bill.sorsby@dlep1.itg.ti.com>
Subject: Re: more ballast tube funzies
Message-ID: <199702131509.JAA18662@lesol1.dseg.ti.com>

At 08:30 PM 2/12/97 -0600, Ben Hall wrote:

>Another list member sent me the following ballast tube replacement idea:
>
>> I saw this somewhere else, and it makes a lot of sense: replace the
>> 3TF7 with an ordinary silicon power rectifier(1N400X). The half
>> -wave dc will be nearly the same to the tubes as dropping half the
>> voltage in the ballast tube.
>...
>It would seem to me that this pulsed over-volting of the tube filaments
>would drive them to an early death, as they are seeing peak filament
>voltages greater than what they were designed for.

Yep! This scheme is one of those BAD ideas which won't seem to die. A simple way to analyze what's happening here is to apply Ohm's law and consider the power dissipation: $P=V^2/R$.

Assuming that this scheme worked, the resistance of the filament would remain constant. Using this assumption, the squared voltage in the numerator (i.e., $2V \times 2V = 4V$), quadruples the power. Installing a series diode introduces a 50% duty cycle which cuts power in half. End result: TWICE the dissipation.

I'll not be installing this mod in my R390's.

Regards,
Bill Sorsby, N5BU

bill.sorsby@dlep1.itg.ti.com
Views expressed herein are no one's fault but mine.

From boatanchors@theporch.com Thu Feb 13 21:30:01 1997
From: Richard Hager <rhager@millcomm.com>
Subject: Re: more ballast tube funzies
Message-ID: <3303A78B.733C@millcomm.com>

Re: using the diode half-wave supply to power filaments.

The original poster seemed worried by the peak voltage. However, filaments, light bulbs, and similar devices reach a temperature determined by the AVERAGE POWER input, not the peak voltage.

The thermal mass of the filament will average the peaks of a 60hz waveform.

I have not sat down to run the numbers, so I can't say whether the diode idea would work properly, but the waveform peaks certainly won't be an issue. Realize that the normal situation of running the tubes on pure AC also gives a voltage peak that's higher than the 'average' voltage.

The ONLY important parameter of any thermal heating device is the RMS value of the applied waveform. That's all that matters, presuming that the frequency is high enough to make the waveform period much shorter than the thermal time constant of the device under consideration.

I hope this clarifies things for you. Any electronics handbook should give you the formulas for calculating the RMS heating value of various waveforms.

--

Richard Hager

+ Ah-ha! Design Group, Inc. -
+ Precision CNC Technology, since 1991 -
+ 612-641-1797, Fax: 612-641-8681 -
+ "I just like to make things" So... -
+ ...please call Ah-ha! directly for CNC info -
+ <http://www.millcomm.com/~ahha> email: ahha@millcomm.com -

From boatanchors@theporch.com Thu Feb 13 14:21:41 1997

From: Sandy W5TVW <ebjr@worldnet.att.net>

Subject: Re: National IF Cans, an oddity?

Message-ID: <19970213064048.AAA12421@LOCALNAME>

At 12:04 AM 2/13/97 +0000, you wrote:

>Good Afternoon Folks,

>A question or two for the combined mental horsepower of the list:

>

>

>Design Issues:

>Each of them has an extra winding (just a couple of turns) that seem

>to have been added either later or as the last step in manufacturing.

>This winding is grounded on one end, and can be grounded on the other.

>There is a spring switch, (small strip of metal riveted to the can

>case on one end, when pressed closes a contact on the other) which

>when closed connects the open end of the small winding to ground.

>Manual mentions in passing some cans "set" to wide bandwidth, others

>to narrow. "Setting" this appears to consist of soldering a jumper

>wire to the outside of the can to close (short) the "switch."

>

>

The windings you refer to are there as a means of varying the coupling between the two main resonant windings of the IF transformer. By doing so, the bandpass curve's shape and "form factor" is varied. Some schemes actually have the two halves of the transformer wound on separate formers, one being fixed, the other being "variable" (coupling wise). The Eddystone 830 and the surplus BC-453, (known by many as the 'Q5'er') use this means of varying the bandpass shape.

It would behoove anyone interested in this phenomena to read the chapter in most of the 40's thru 60's ARRL Handbooks dealing with RF transformer coupling methods and the effects of under, critical and overcoupling.

There is a fairly complete treatment of this from a design standpoint in pp.1025-1050 in the 4th ed. of the Radiotron Designer's Handbook for those interested in how this is done.

73,

E. V. Sandy Blaize, W5TVW

"Boat Anchors collected, restored, repaired, traded and used!"

417 Ridgewood Drive,

Metairie, LA., 70001

ebjr@worldnet.att.net

Looking for: 860 tubes, WL-460 tubes, RK-18,20,28 tubes

Butternut HF2V antenna, G-R test gear.....*

From boatanchors@theporch.com Thu Feb 13 14:21:41 1997
From: Ho4bart@aol.com
Subject: Re: National IFcans
Message-ID: <970213111532_378155516@emout05.mail.aol.com>

In a message dated 97-02-12 22:05:18 EST, spr@earthlink.net (Scott Robinson) writes:

```
<< I haven't figured out its phasing yet, so I can't tell if
  it's positive or negative feedback.  Interesting.  It's not switchable. >>
```

this must be positive feedback to gain a little selectivity, no?
i have a german entertainment-type radio with one IF that uses an
additional winding for this use. (but it doesn't get it from the screen).
why from the screen i wonder? to avoid detuning the IF or to limit
the feedback so a new tube or higher voltages would not cause it
to squeel? this is the fun part of reading schematics: what's that in
there for? hue miller

From boatanchors@theporch.com Thu Feb 13 21:30:01 1997
From: "Gary H. Harmon, Jr." <gharmon@txdirect.net>
Subject: Need Base for Heathkit HP-23 PS
Message-ID: <199702132342.RAA20992@legend.txdirect.net>

I have a HP-23 PS that I need to mount inside a SB-600 speaker. Unfortunately it's missing the bottom cover. Anybody have a bottom cover or even a fried PS for sale or trade?

Thanks in advance and 73,
gary

[illegible]

From boatanchors@theporch.com Thu Feb 13 21:30:01 1997

From: Jake Hellbach <kk5hy@accesscom.net>
Subject: Need source for Heathkit paint
Message-ID: <2.2.16.19970213203958.38dffbd4@accesscom.net>

Hello,
Is there a source for a "close" color match for the blue gray paint that is on the SB300/ SB400 pair?
Someone told me to go to a hobby shop and pick a close color of spray paint. Just wanted to know if there was a name and paint number to go by.

Thanks, Jake KK5HY

Email via: kk5hy@accesscom.net
-----A.M.I. #832-----
Check out the Westside ARC Web page at:
<http://www.accesscom.net/~kk5hy>
Updated with Boatanchor links!!!!

Email via: kk5hy@accesscom.net
-----A.M.I. #832-----
Check out the Westside ARC Web page at:
<http://www.accesscom.net/~kk5hy>
Updated with Boatanchor links!!!!

From boatanchors@theporch.com Thu Feb 13 21:30:01 1997
From: Chuck Penson <penon@sci.mus.mn.us>
Subject: Re: Need source for Heathkit paint
Message-ID: <33038A98.4BCE@sci.mus.mn.us>

Jake Hellbach wrote:

>
> Hello,
> Is there a source for a "close" color match for the blue gray paint that is
> on the SB300/ SB400 pair?

Jake,

Although I have not personally checked this out, I am told that a spray paint made by Testors (the people who make all the plastic models) is REAL close. The color is called "SAC Bomber Green" and is

from their "Model Master" series of paints. Check for it at you local hobby shop.

Cheers,

--

Chuck Penson
WA7ZZE

penson@sci.mus.mn.us
612.221.4510 voice
612.224.5092 fax
<http://comped.sci.mus.mn.us>

After having used the Web for a couple of years now I am convinced that lots of information isn't always better than no information at all.

From boatanchors@theporch.com Thu Feb 13 14:21:41 1997
From: Michael Crestohl <mc@shore.net>
Subject: New AM'ers WWW Home Page.....
Message-ID: <199702131333.IAA22281@northshore.shore.net>

Hello Everyone:

I don't know if this has been reported yet (I am so far behind reading the BA-List traffic), but Steve WB3HUZ has a great AM home page.

<http://www.thebizlink.com/am/>

Check it out!!

73 and enjoy!

Michael, W1RC

From boatanchors@theporch.com Thu Feb 13 14:21:41 1997
From: "Herb Holeman" <choleman@ptialaska.net>
Subject: R-390A and Cosmos PT0
Message-ID: <199702130532.UAA20380@husky>

I'd sure like to hear from someone who has aligned a Cosmos PT0. I have one that's about 8 KHz off over the one MHz tuning range, and the end point adjustment just doesn't help. This one needs to have the correction screws adjusted for sure.

Questions I would love to hear answers to:

1. Do I need an elaborate bench jig to do the job?
2. If the answer to #1 is yes, how does one construct such a thing?
3. Can this alignment be done by an average human who is well into bifocals?
4. What type of lubrication is appropriate to apply to the PTO while I have the covers off next time?

I do have a copy of the Cosmos patent application which describes the theory of operation along with the drawings.

This is one of the few detractors left in the radio that really doesn't hurt performance, but it's an annoyance! Oh all right, so I'm a perfectionist. I've been called worse!

Thanks in advance.

Herb Holeman, W7ZF
Juneau, Alaska

From boatanchors@theporch.com Thu Feb 13 14:21:41 1997
From: "Lamb, Charles E MD" <lambmd-ce@saalem.ge.com>
Subject: R390A Assist
Message-ID: <CD240333012A397C@mhsgate.salem.ge.com>

Dear fellow filamentarians,

Several weeks back, an article was posted about someone who was selling R390As as parts units which may be restorable and for some reason I have been unable to locate this tidbit in my ever growing archives. I didn't really think I needed it because I had a fellow (sadly a sometimes listposter) who agreed to sell me one of these receivers but then elected to sell the unit to someone else for more money months later. Because he did not inform me of any of this (and in fact repetitively said he would be shipping it as soon as he became caught up), I have not pursued any one of several units which have been seen for sale both here and elsewhere since mid December when he agreed to sell that one. Could someone enlighten me as to the source of these 390As? Specifically, it seems that I recall they were in the Midwest and there was some mention of a stripe of blue paint down the face and display counter window. Alternatively, if any of the list is in a selling mood or knows someone who is, I would appreciate private Email to that effect. I wholeheartedly appreciate the camaraderie and assistance which I regularly receive from many of you and am pleased that the individual

referenced above is the exception to the rule. As an aside, what sort of experience have listmembers had at using the 390A with panadaptors?

Charles WD4KZK

Charles E. Lamb, MD, PhD
GE Motors and Industrial Systems
1501 Roanoke Blvd Phone 540-387-7219
Salem VA 24153 Fax 540-387-8673

From boatanchors@theporch.com Thu Feb 13 14:21:41 1997
From: Rudy Salomon <rhs@pacbell.net>
Subject: Rads & Rems
Message-ID: <3302A5F0.2411@pacbell.net>

Just received my brand new unused mil. surplus PDR-63 radiation detection set. Intend to measure those glow in the dark meters and knobs on my mil. B.A.s.

This thing comes complete with headset, battery charger, high range radiac meter, skin dose probe, low range probe and neat little manual, about 3 X 5", all packed in a neat hinged O.D. box with carrying handle.

Used in these instruments are, a Geiger-Mueller tube, an electrometer tube and a recycling ion chamber detector system. The manual has nice explanations and schematics of all. Worth the money just to look and fondle the neat gadgets.

There is one thing I could use some help with and that is the unit of measure used by the PDR-63 gear, the rad/hr. Looking in my ITT Ref. Data for Radio Eng., I find a table of maximum permissible exposures which uses the "rem" as a unit of measure.

As I recall, in earlier discussions on the possible hazards of the glow in the dark BA parts, there were some members of the list with expertise in this area. I wonder if one of you gentlemen could tie these two units of measure together for me and others who have undertaken the task of attempting to quantify the degree of exposure from the various BA emitters.

Regards, Rudy Salomon - KD6NRQ

I

From boatanchors@theporch.com Thu Feb 13 21:30:01 1997
From: "D. Ragsdale" <doragsda@polymail.cpunix.calpoly.edu>
Subject: Re: Rads & Rems
Message-ID: <199702132022.AA185565346@rubens.artisan.calpoly.edu>

>
>There is one thing I could use some help with and that is the unit of
>measure used by the PDR-63 gear, the rad/hr. Looking in my ITT Ref. Data
>for Radio Eng., I find a table of maximum permissible exposures which
>uses the "rem" as a unit of measure.
>
I'll argue that this is on-topic, since some BA's contain radioactive materials.

RAD is a unit of absorbed dose.

REM is a unit of dose equivalent.

For your purposes they are equivalent and interchangeable.

If your meter reads in Rad/hour, it's not going to be much use to you, probably. This high of a range is for checking how hot your jeep is after the nuclear warheads go off. For measuring most common items, you may be up into the 100 millirem/hour range or all the way down to the microrem/hour range. The lower ranges of your meter may hit part of this.

Dave

David Ragsdale, R.E.H.S. Risk Management
California Polytechnic State University, San Luis Obispo, CA
du651@oasis.calpoly.edu or doragsda@cymbal.aix.calpoly.edu

From boatanchors@theporch.com Thu Feb 13 21:30:01 1997
From: Rudy Salomon <rhs@pacbell.net>
Subject: Re: Rads & Rems
Message-ID: <3303D55D.55F1@pacbell.net>

First, I wish to thank all those that responded to my post in regards to my last posting about Rads and Rems.

I now have a better understanding of that subject and also whats hot and whats not, around my BA gear.

Came home today, took the NiCads out of the charger and plunked them in to the PDR-63 meter, hooked up the low range GM module and went exploring.

R-390A receiver with both meters that look original, one newer than the other, it also glows in the dark while the other, older one, does not. The radio has a 1988 overhaul sticker. I expect the one meter might have been replaced at that time.....ONLY BACKGROUND READINGS UP AGAINST THE GLASS OF THE METER WITH THE COVER OFF THE PROBE FOR BETA PARTICLE DETECTION.

R/T70 Korean War vintage set with glow in the dark knobs....BACKGROUND ONLY.

PRC-10 Korean War BA with glow in the dark knobs. BACKGROUND ONLY

TRC-77 Vietnam War Vintage semi BA with glow in the dark knobs. BACKGROUND ONLY

R-392 Receiver 1" from meter face (its so old it doesn't glow anymore)
GM tube sounds like hornets nest .4 millirads/hour (lowest scale)

No other BA gear with anything other than background readings on the most sensitive scale.

Had one other hit though, an old watch in my desk dating from the teens or 20s, I think, doesnt glow either but has the same response as the R-392 meter, about .4 millirads/hour at 1".

I think the radiation level from the R-392 meter and the watch, which remains in my desk in any case, is probably of little consequence in their present state.

I am puzzled about the meters on my R-390A, the newer one glows very nicely in the dark and some of the older knobs on my other BA gear also glow but do not produce a reading????

I have been able to type this without the aid of a lamp, thanks to that ghostly greenish glow emanating from my hands :-)

73 de Rudy Salomon - KD6NRQ

From boatanchors@theporch.com Thu Feb 13 14:21:41 1997

From: Hal Waite <halwaite@sprintmail.com>

Subject: Re: RSGB handbooks

Message-ID: <3302CE95.6B17@sprintmail.com>

Andrew Emmerson wrote:

>
> >I've never seen a prewar or even pre-70s one, and wonder if the UK BAers
> here collect them.
>
> Well, UK BAers in the UK do, up to a point. From memory, the first one
> came out in 1939, with a very similar second edition also in 1939 (I have
> both). Nice old-fashioned colour cover, chapter on "Television Technique"
> (the latest thing! That's broadcast TV, not amateur television). Even
> more interesting is the wartime supplement, which contains chapters on
> emergency radio operation and the like.

I collect older radio handbooks and have seen only one copy of "The Amateur Radio Handbook", which I purchased. This is the Second Edition with First Printing in July, 1940. Quite rare stateside.

This is an excellent textbook and rivals the Frank Jones series of Radio Handbooks from the 1935 first edition through the late 1930's. In 1940, Editors and Engineers apparently took over the publication.

These handbooks are a delight to read and for building projects. The ARRL Handbooks of that same period are pitiful!

Hal K3AB/7 Las Vegas

From boatanchors@theporch.com Thu Feb 13 21:30:01 1997

From: wpul1130 <wpul1130@concentric.net>

Subject: RT-159B/URC-4

Message-ID: <33038726.6977@concentric.net>

Greetings All: Does anyone have the tube line up for the URC-4? I am going to the Orlando Ham Fest this weekend and possibly I can find replacements.

Thanks and 73's

Lloyd

From boatanchors@theporch.com Thu Feb 13 14:21:41 1997

From: Karl-Arne =?ISO-8859-1?Q?Markstr=F6m_08?= 6017171

Subject: Re: Synthesizers are fine if toobie based!

Message-ID: <C95ISA1ZJZE*/R=A1/R=MRGST/U=KAM/@MHS.stoa.mobile.telias.se>

Fellow BA'ers

NA4G/Bob wrote:

^aI wouldst offer that a fine way to do it would be
^awith a warm glowing vacuum tube synthesizer. They be scarce as the
^agiant squid, but are about

I'll second that, with maybe the reservation that the task of obtaining fresh
E88CC/6922's
in sufficient numbers (about 50 a set) to keep a Rodhe&Schwarz or Schomandl
"Dekadische Steueroszillator", or a homebrew unit, happy could constitute a
serious strain on the BA hobby budget.

These European BA (in the literal sense) synthesizers were once one of
the most prized possessions in many research labs in the 60's and early 70's,
but were quickly phased out when more reliable and less
maintenance-intensive SS equipment came.

I remember that my university radio club (SK6AB) auctioned off a few in
1979 that had been used at the Chalmers Univ of Tech radio telescope.
They were Rohde&Schwarz units that filled 3/4 of a full height rack.

I'd very much like to hear if the BA community knows about any BA synth's that
are still used as receiver LO's or transmitter drivers somewhere.

73/Karl-Arne Markstrom
SM0AOM

kam@stoa.mobile.telia.se

From boatanchors@theporch.com Thu Feb 13 21:30:01 1997
From: Richard Hager <rhager@millcomm.com>
Subject: Re: Synthesizers are fine if toobie based!
Message-ID: <3303A15D.5D57@millcomm.com>

Interesting post from Bob/rdkeys on tube synths snipped....

I was just daydreaming about this the other night, when I got too tired
to do any more -real- work.... I hadn't been thinking about the multiple
osc. setup that Bob mentioned though, because of the spur problem. It
can be very difficult to filter a 1.1 mhz signal from a 1 mhz signal by
100db ! All those mixers equals a nasty spur problem.

The shielding requirements for this type of synth are also extreme. Most
of those old HP generators that he mentioned have pretty poor
phase-noise/spectrum-cleanliness characteristics.

Since I'd just finished a work project using a 200mhz IC PLL synth., I naturally fell into thinking how one would implement something similar in BA terms.

Two concerns immediately raised their ugly heads:

- a) While one can make fairly low parts count dividers with tubes, the freq selection in a PLL is done with -programmable- dividers. I'm not sure how programmability could be done at a low parts count still. Anybody know how?
- b) Phase noise in the output is directly related to the switching speed of the dividers, among other factors. The phase noise is caused by timing jitter, and the slower the edge, the greater the jitter in general. How fast can a tube flop be made to switch? How fast would the edge have to be before other noise sources became predominant? How the heck will we keep switching noise from those 50volt nanosecond edges outta the rest of the BA?

Before I finally tuckered out totally, the only conclusion I came to is that Nuvistors would be the tube of choice. They are fast, and small, and low power. Were there ever any dual-unit nuvistors? Like a 12AT7 but in Nuv pkg?

It would be a lot of fun to get a tube PLL synth up and running! I can just see those nixies glowing now...

Richard
--

Richard Hager

+ Ah-ha! Design Group, Inc. -
+ Precision CNC Technology, since 1991 -
+ 612-641-1797, Fax: 612-641-8681 -
+ "I just like to make things" So... -
+ ...please call Ah-ha! directly for CNC info -
+ <http://www.millcomm.com/~ahha> email: ahha@millcomm.com -

From boatanchors@theporch.com Thu Feb 13 14:21:41 1997
From: djw@unlinfo.unl.edu (Daniel Wright)
Subject: TR4C won't (transmit!)
Message-ID: <9702131407.AA04700@unlinfo2.unl.edu>

Greetings!

I have a very nice Drake TR4C that just stopped transmitting!
The TR relay will not close. Previous to this when I would
switch to the CW position to tune (quickly!) or check output,
sometimes I had to turn the receive audio down before the
transmit relay would engage.....kinda like an anti-vox situation.
Anyhoo....I have replaced the 6EV7 and checked the light bulb
fuse. My particular TR4C has a whole bunch of "baby" pc-boards
under the chassis. They look like they are factory wired. Is
this a bunch of factory mods? Or is this the way most Drakes
are constructed? The wiring is also suprisingly dense (as am I!).
I'm stuck and need my hand held on this one. I'm gonna try to
fix the problem but failing that, I'll probably send her off to
Miamisburg for a "refurb".....HELP!! and thanks a bunch...(8->!

73 de dan -- WA0JRD ..
djw@unlinfo.unl.edu

From boatanchors@theporch.com Thu Feb 13 14:21:41 1997
From: Nick England <nick@cs.unc.edu>
Subject: Re: TR4C won't (transmit!)
Message-ID: <199702131914.0AA19363@altair.cs.unc.edu>

I bought one at a hamfest once that had the opposite problem - it would start
transmitting and not quit. Turns out that the VOX circuit uses some incredibly
high resistance resistors and these wander off with age and heat. I
also had to replace a cap that had gotten slightly leaky - and in a circuit
with 33 megohm resistors it doesn't take much leakage to upset things. I'd
check the parts around the VOX circuit.

good luck

73 & Have Fun,

Nick England KD4CPL nick@cs.unc.edu Univ. Of North Carolina
<http://www.cs.unc.edu/~nick> Chapel Hill NC

From boatanchors@theporch.com Thu Feb 13 14:21:41 1997
From: Jack Antonio <dia@intercomm.com>
Subject: Trip to Tucson AZ
Message-ID: <3302B86B.42DD@intercomm.com>

I apologize if I am repeating myself, when I tried to post this message
my computer gave me an "illegal operation" message. This makes attempt
number 3 to post this(third times the charm...right?)(Also thanks to
Jack for straightening me out on attempt number 1)

A friend of mine and I are planning a trip to Tucson in a couple of months to take in the Pima Air Museum. I was wondering if there are any surplus or ham stores in the area with anything interesting to a boatanchorite? I don't know how long we will be in the Tucson area but would like to hit any points of interest down there if possible.

Thanks

Jack WA7DIA
dia@intercomm.com

From boatanchors@theporch.com Thu Feb 13 14:21:41 1997
From: Bob Roehrig <broehrig@admin.aurora.edu>
Subject: unusual circuit
Message-ID: <Pine.ULT.3.95.970213124341.19850A-100000@admin.aurora.edu>

Last night, a friend came over bearing a G.E. 1950's vintage AM/FM table radio. This is the typical dark brown plastic type case, more or less common series filament AA5 type circuit. HOWEVER - it uses something I have only seen in old 1920's era QST's. The first stage is a 12BA6 and is used as both the RF amp and 1st IF amp in the FM mode. The dual purpose of a stage like this was (is) called a reflex circuit. The mixer/osc is a 12BE6, and it's plate feeds an IF can that feeds back to the grid of the RF amp.

Anyone else seen anything like this in "recent" equipment?

E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI
CIS: Data / Telecom Aurora University, Aurora, IL
630-844-4898 Fax 630-844-5530

From boatanchors@theporch.com Thu Feb 13 21:30:01 1997
From: km1h@juno.com
Subject: Re: unusual circuit
Message-ID: <19970213.160848.9887.8.km1h@juno.com>

Hi Bob and others;

Yep, the "Reflex Circuit" was fairly popular in the 50's. The best example was old "Mad Man Muntz" and his non stop ads for TV sets and "console radios" back then with about a half the tubes in other brands. Articles also appeared in ham journals in that era, including I think, a

ARRL Handbook receiver.

Popular Mechanics and later Popular Electronics also published articles in the 1950-57 or so era.

Finally, some early SS or hybrid portable radios used the idea.

73.....Carl KM1H

On Thu, 13 Feb 1997 12:49:56 -0600 (CST) Bob Roehrig

<broehrig@admin.aurora.edu> writes:

>

>Last night, a friend came over bearing a G.E. 1950's vintage AM/FM
>table radio. This is the typical dark brown plastic type case, more
>or less common series filament AA5 type circuit. HOWEVER - it uses
>something I have only seen in old 1920's era QST's. The first stage
>is a 12BA6 and is used as both the RF amp and 1st IF amp in the FM
>mode. The dual purpose of a stage like this was (is) called a reflex
>circuit. The mixer/osc is a 12BE6, and it's plate feeds an IF can that
>feeds back to the grid of the RF amp.

>

>Anyone else seen anything like this in "recent" equipment?

>

>

> E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI

> CIS: Data / Telecom Aurora University, Aurora, IL

> 630-844-4898 Fax 630-844-5530

>

>

From boatanchors@theporch.com Thu Feb 13 21:30:01 1997

From: Scott Robinson <spr@earthlink.net>

Subject: re: Unusual circuit (reflex amplifier)

Message-ID: <330373FE.529F@earthlink.net>

-----20043CB5607D2

Content-Transfer-Encoding: 7bit

Content-Type: text/plain; charset=us-ascii

Folks,

I have an early '50s K^rting entertainment radio that uses the RF amp as a first audio in this way. Of course, this scheme accrues perfect linearity and so never works terribly well.

Regards,

-----20043CB5607D2

Content-Transfer-Encoding: 7bit

Content-Type: text/html; charset=us-ascii

<HTML><BODY>

<DT> Folks,</DT>

<DT> </DT>

<DT>I have an early '50s Körting entertainment radio that uses the RF amp as a first audio in this way. Of course, this scheme accumes perfect linearity and so never works terribly well. </DT>

<DT> </DT>

<DT>Regards,</DT>

<DT> </DT>

<DT> </DT>

</BODY>

</HTML>

-----20043CB5607D2--

From boatanchors@theporch.com Thu Feb 13 14:21:41 1997

From: "michael ferraro" <ferraro@sprintmail.com>

Subject: Value of 32V-3, 75A-1

Message-ID: <199702131636.IAA10156@mailgate32>

Anyone out there that could give me an idea as to the value of these two great Collins Radios ?

thanks,

mike

From boatanchors@theporch.com Thu Feb 13 21:30:01 1997

From: Bill Breshears <bbuck@cccbbbs.com>

Subject: Warning, Replacing Seleniums

Message-ID: <01BC19D0.A4E08200@s19.cccbbs.com>

On February 12 Dan kerl wrote:

>if a selenium rectifier was employed in the bias supply.
If so, lose it quick! I shudder to think about how many
7591s have been consumed due to underbias caused by
selenium rectifier deterioration. Use a cheap silicon
diode with added resistance to compensate for the lower
forward voltage drop.

I agree about replacing Seleniums with Silicon. I was doing
just that and exploded a bias filter cap in the process.
I had, without much thinking, replaced the rectifier using
the MARKED + polarity on the selenium to orient the
diode. It seems there was a period when the + convention
was reversed from what it is now. A check of the circuit
diagram and polarity needed set it straight. BEWARE!

Bill Breshears WC3K ex: W5VVp, VK8BJ, WA6ZEZ
Maryland
bbuck@cccbbs.com

From boatanchors@theporch.com Thu Feb 13 21:30:01 1997
From: jproc@bellglobal.com
Subject: RE: Warning, Replacing Seleniums
Message-ID: <Chameleon.4.01.2.970213183442.jproc@finlay.bellglobal.com>

> It seems there was a period when the + convention
>was reversed from what it is now.

Bill,

This is the first time that I'm hearing about this. Is this common knowledge?
It sounds like very obscure but VERY valuable information. Where did you
first learn of this? Just image a filter cap exploding near your eyes because
of an inadvertent polarity reversal caused by a diode installation done by
the book!

Regards,

Jerry Proc VE3FAB

E-mail: jproc@bellglobal.com
HMCS Haida Naval Museum
Toronto, Ontario
'Looking for a 'AN/SRC-501'

From boatanchors@theporch.com Thu Feb 13 21:30:01 1997
From: km1h@juno.com
Subject: Re: Warning, Replacing Seleniums
Message-ID: <19970213.200317.9887.22.km1h@juno.com>

GEEEEEEEEEEEE WHIZZZZZZZZZZZZZZZZ!!

My first exploding capacitor occurred at age 15 in 1954 Jerry. I quickly learned about electrolytic polarities. This subject has been (I thought) beaten to death in ham literature over the years. I did not realize that you have been living the life of a monk up there!!

Keep smiling.....and keep that new snow storm front up there please!.....Carl KM1H

From boatanchors@theporch.com Thu Feb 13 21:30:01 1997
From: Richard Hager <rhager@millcomm.com>
Subject: Re: Warning, replacing Seleniums
Message-ID: <3303AE59.49B2@millcomm.com>

jproc@bellglobal.com wrote:

> Just image a filter cap exploding near your eyes because
> of an inadvertent polarity reversal--

I guess I'm one of the few here who regularly dons safety glasses before powerup. Since I have machine tools in the shop, there's always a pair or two laying around, and I just reach over and grab them before hitting "ON". A subconscious habit I suppose, but it has -definitely- saved my eyes two or three times in the past 10 yrs.

You still need to be concerned about electrolyte burns to your skin, but hey, scarred and visual is better than scarred and blind, right?

You guys might want to get yourself a pair. Cheap Lexan glasses that meet OSHA spec are only 4 bucks. Nice ones are only 7 to 10 bucks. Check your MSC catalog or stop at a machine tool supply store.

Another device I use when I -expect- blow-ups is a Lexan shield, a quarter inch thick and about 12x15". It's mounted on a Loc-line type of gooseneck attached to a chunk of cast iron as a base. Gives excellent protection against all manner of flying debris.

--

Richard Hager

+ Ah-ha! Design Group, Inc. -
+ Precision CNC Technology, since 1991 -
+ 612-641-1797, Fax: 612-641-8681 -
+ "I just like to make things" So... -
+ ...please call Ah-ha! directly for CNC info -
+ <http://www.millcomm.com/~ahha> email: ahha@millcomm.com -

From boatanchors@theporch.com Thu Feb 13 21:30:01 1997
From: jproc@bellglobal.com
Subject: Re: Warning, Replacing Seleniums
Message-ID: <Chameleon.4.01.2.970213205111.jproc@finlay.bellglobal.com>

Carl,

You have obviously MISREAD my post. I was commenting on the the fact that the polarity of a selenium rectifier could be incorrect. (If you can't believe the marking what can you believe?) Electolytic capacitors explode the same way here as they do south of the border and I've seen a few in my lifetime!

Regards,

Jerry Proc VE3FAB
E-mail: jproc@bellglobal.com
HMCS Haida Naval Museum
Toronto, Ontario
'Looking for a 'AN/SRC-501'

From boatanchors@theporch.com Thu Feb 13 14:21:41 1997
From: "Mike O'Brien" <mobrien@lib.drury.edu>
Subject: Workbench survey results

Message-ID: <9702131921.AA62010@lib.drury.edu>

Thanks to the 20 list members who responded privately to my recent inquiry concerning the preferred material for a benchtop to be used for working on BAs.

As promised, the results:

Masonite is the most popular choice, with five votes. Four respondents suggest I stick with my previous choice, carpet. Three said plywood coated with urethane is the way to go. Two say Formica. And receiving one vote each are floor tile, sheet polyethylene, slate, rubber mat, hard maple butcher block, and sheet metal (yikes!).

Truth to tell, I also received a great deal of advice concerning construction of underpinnings, dimensions, shelving, outlets, lighting, etc.

I'm taking all this wisdom to heart, and I appreciate your sharing it!

73, Mike, KOMYW

Mike O'Brien (mobrien@lib.drury.edu)

From boatanchors@theporch.com Thu Feb 13 14:21:41 1997
From: afpgreg@state.me.us (Paul V. Gregory)
Subject: WTB misc. HC-6 Xtals
Message-ID: <199702131349.IAA01964@gatekeeper.ddp.state.me.us>

Ahoy,

I require xtals between these freqs: 14.2 -- 14.7 mcs
 17.7 -- 18.0 mcs

tnx de Paul
afpgreg@state.me.us

From boatanchors@theporch.com Thu Feb 13 14:21:41 1997
From: JRininger@aol.com
Subject: WTT: Straight Key Collection for HQ-180 or HRO 60
Message-ID: <970212235825_-2043909882@emout17.mail.aol.com>

I have a collection of 20 straight keys that I would like to trade for (or at least toward) an HQ 180,

HQ 180A, or an HRO 60.

If you have one of these receivers and would consider a trade, please email me with a description of your radio and I will return a description of the keys I have.

73,
Jeff
N6MNI